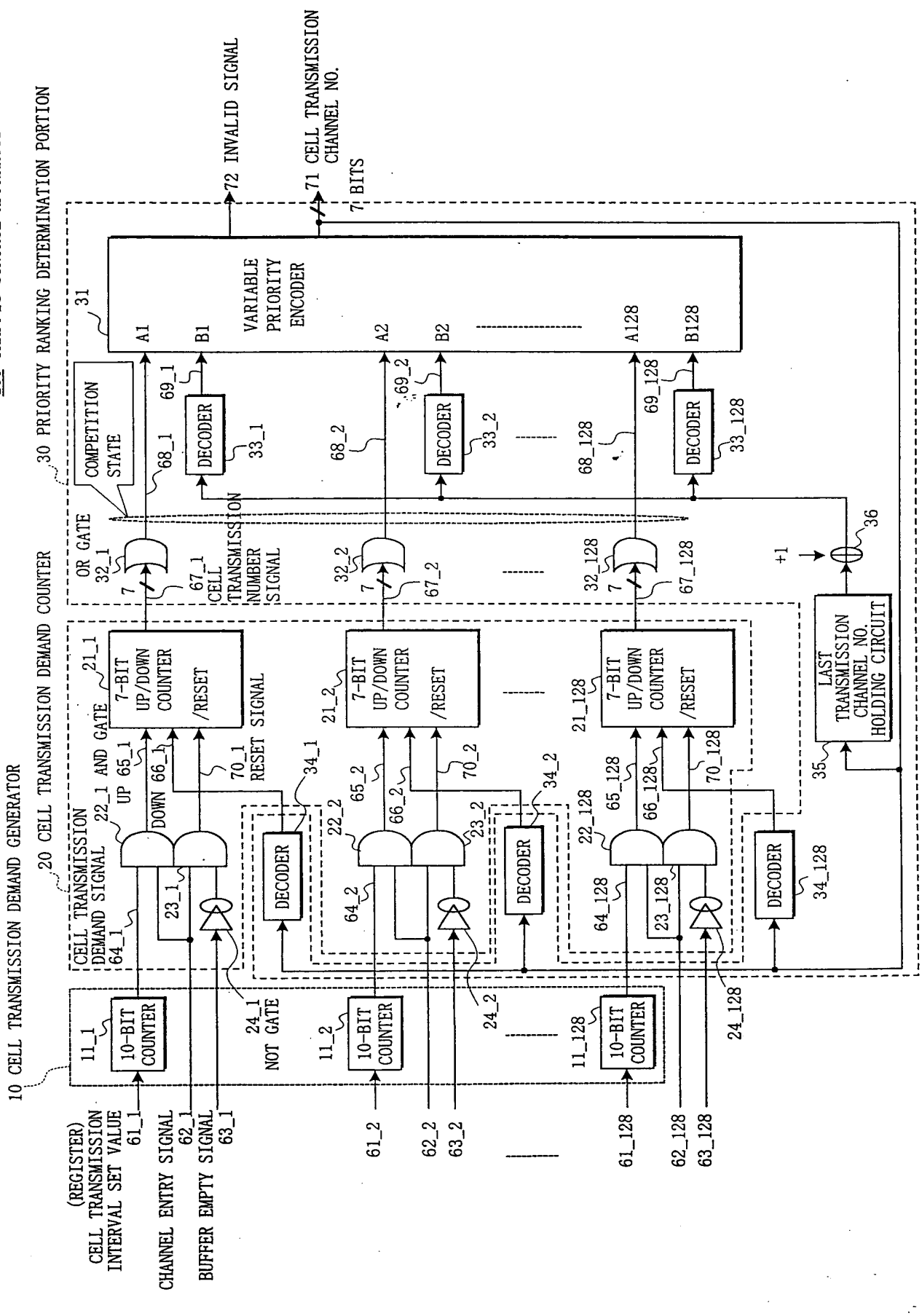
FG65 (1)

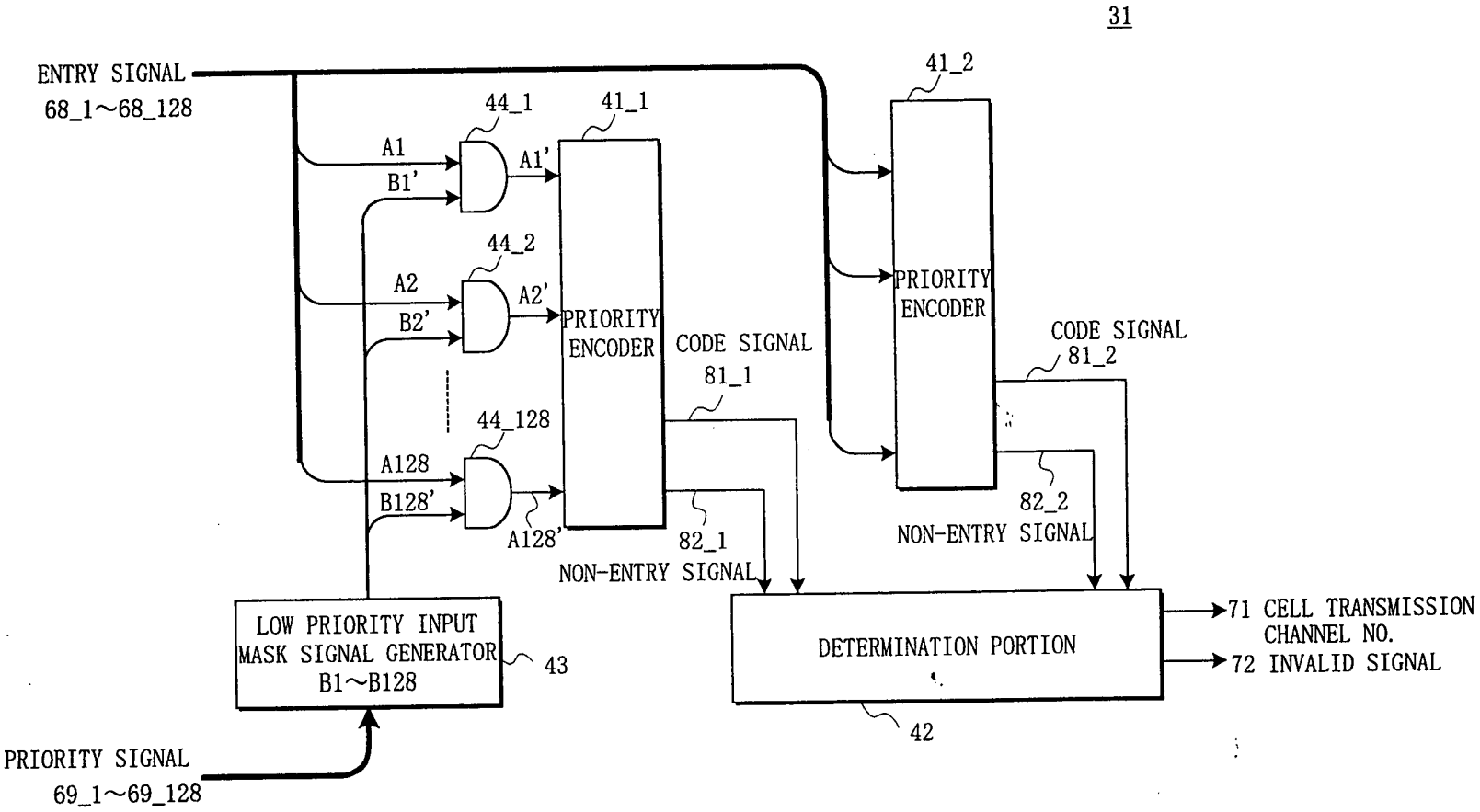
FIG. 1


100 TRAFFIC CONTROL APPARATUS
10 CELL TRANSMISSION DEMAND GENERATOR
20 CELL TRANSMISSION DEMAND COUNTER
30 PRIORITY RANKING DETERMINATION PORTION
(REGISTER) CELL TRANSMISSION INTERVAL SET VALUE
CHANNEL ENTRY SIGNAL
BUFFER EMPTY SIGNAL
10-BIT COUNTER
NOT GATE
CELL TRANSMISSION DEMAND SIGNAL
AND GATE
UP
DOWN
7-BIT UP/DOWN COUNTER
/RESET
RESET SIGNAL
DECODER
OR GATE
CELL TRANSMISSION NUMBER SIGNAL
COMPETITION STATE
VARIABLE PRIORITY ENCODER
72 INVALID SIGNAL
71 CELL TRANSMISSION CHANNEL NO.
7 BITS
LAST TRANSMISSION CHANNEL NO. HOLDING CIRCUIT
+1

FG65 (2)

TOHZTO" 02289260

FIG. 2



FOREIGN 02289260

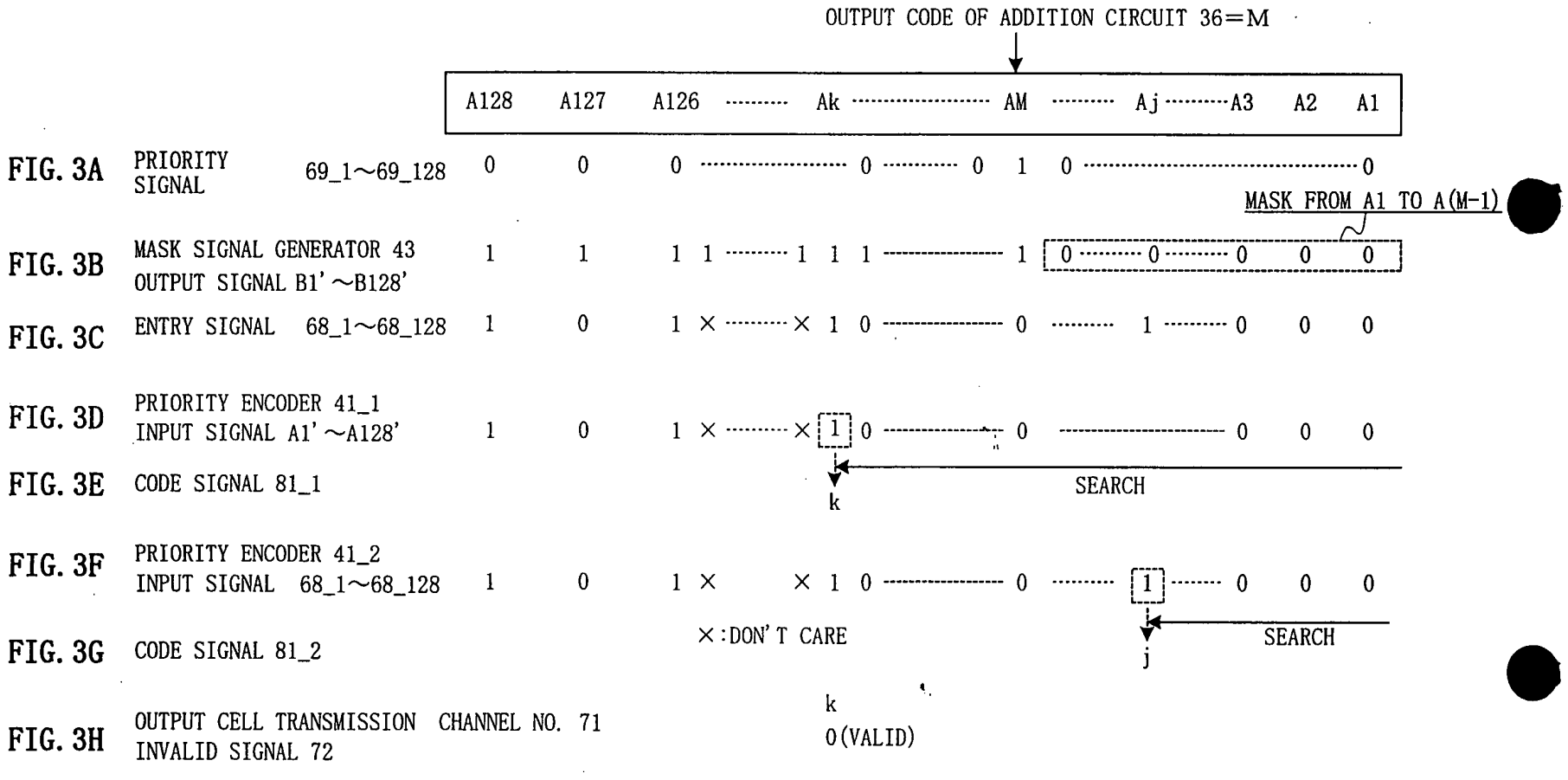


FIG. 4

INPUT SIGNAL				OUTPUT SIGNAL	
CODE SIGNAL 81_1	NON-ENTRY SIGNAL 82_1	CODE SIGNAL 81_2	NON-ENTRY SIGNAL 82_2	CHANNEL NO. 71	INVALID SIGNAL 72
×	INVALID	×	INVALID	×	INVALID
k	VALID	×	INVALID	k	VALID
×	INVALID	j	VALID	j	VALID
k	VALID	j	VALID	k	VALID

×:DON'T CARE

FIG. 6

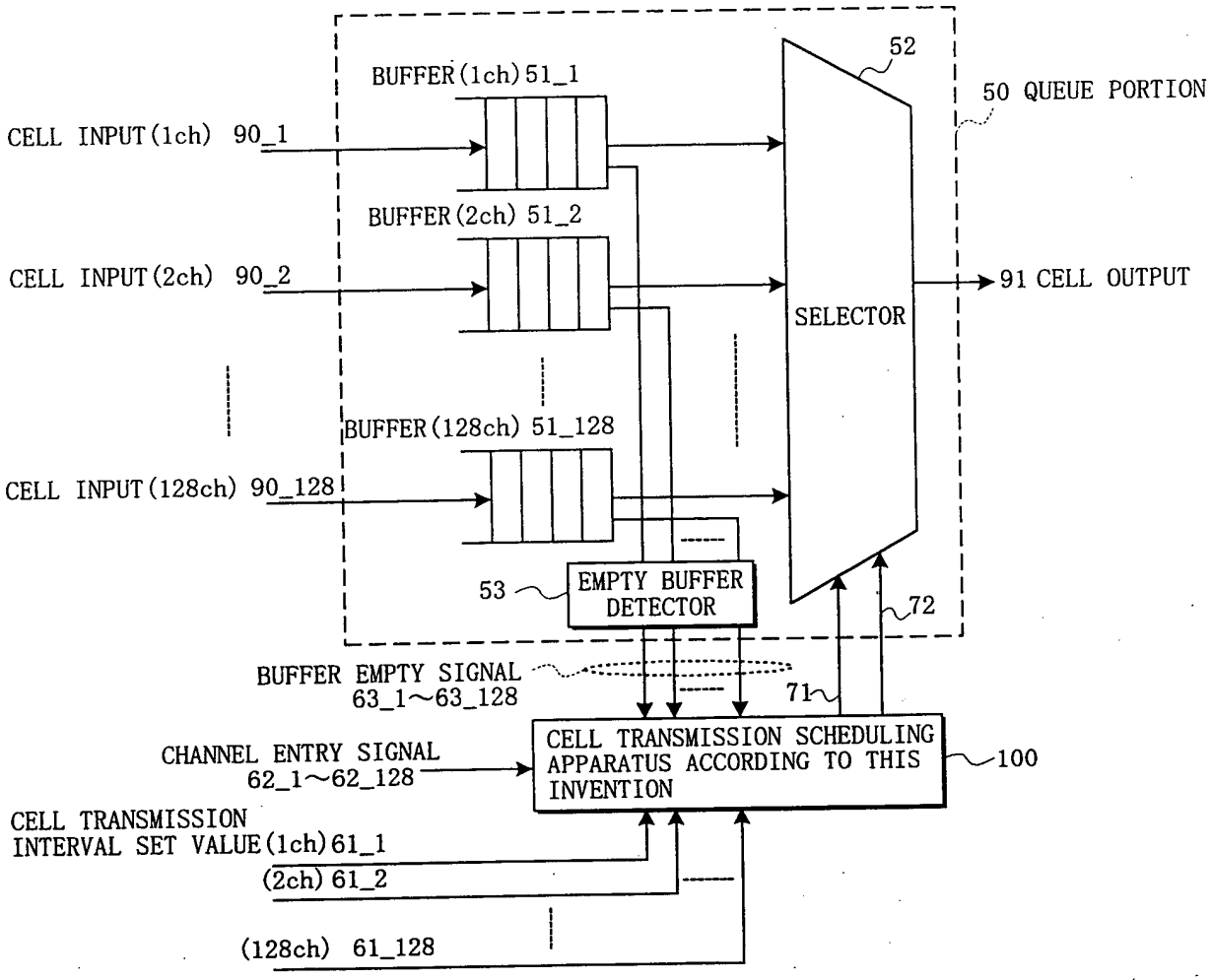


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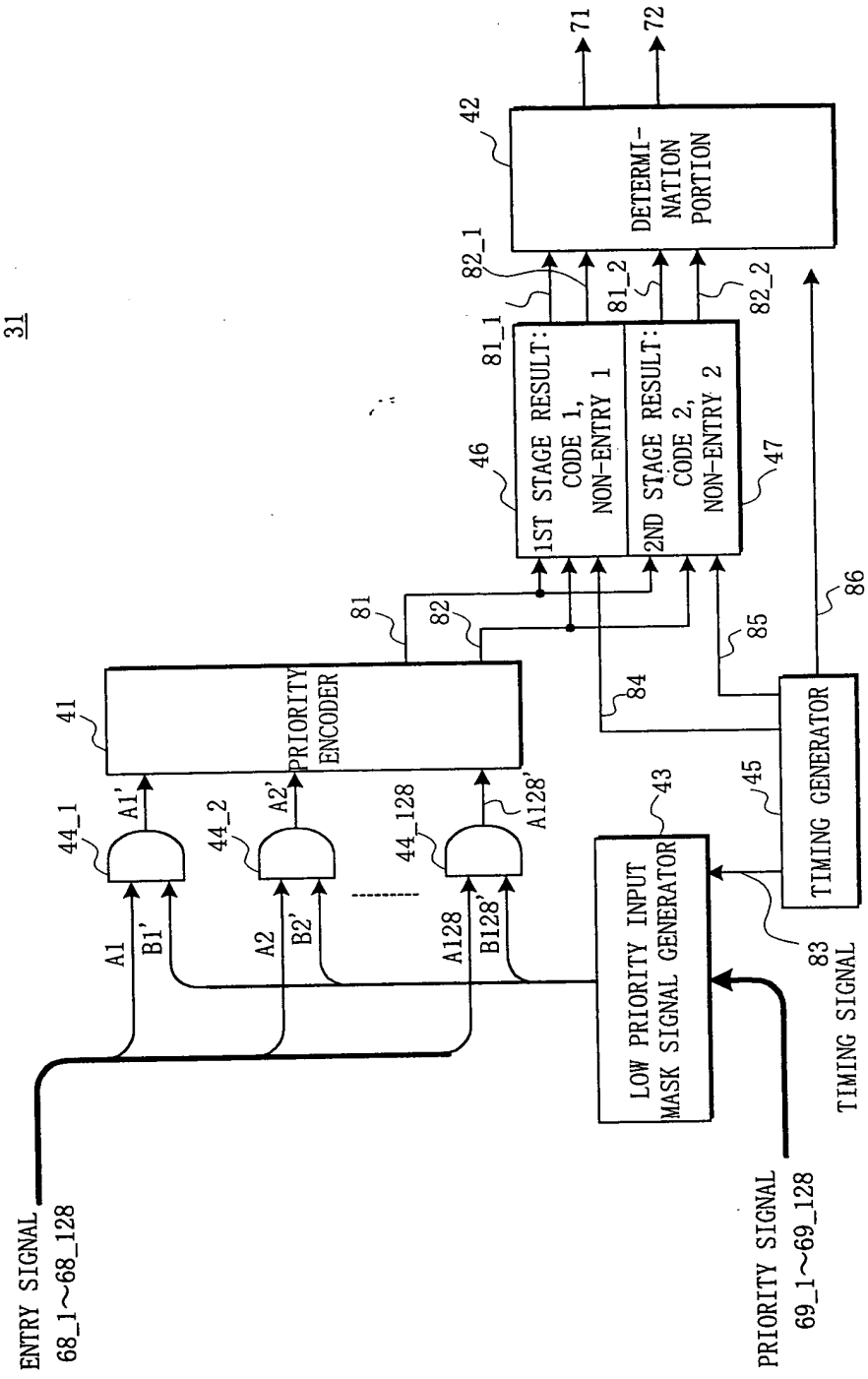
FIG. 5



CASE OF CHANNEL NUMBER N=4

FIG. 7A CELL TRANSMISSION TIMING

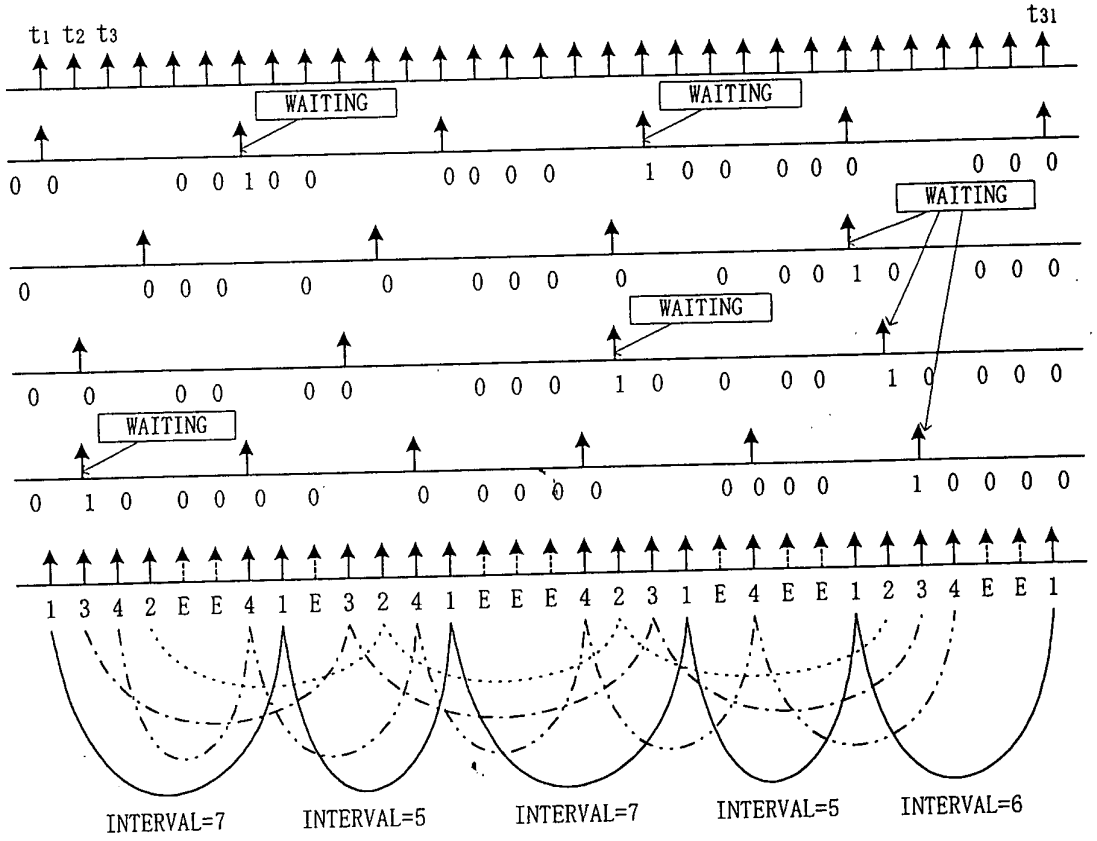
FIG. 7B ch1:CELL TRANSMISSION INTERVAL 6
CELL TRANSMISSION DEMAND SIGNAL 64_1
CELL TRANSMISSION NUMBER SIGNAL 67_1

FIG. 7C ch2:CELL TRANSMISSION INTERVAL 7
CELL TRANSMISSION DEMAND SIGNAL 64_2
CELL TRANSMISSION NUMBER SIGNAL 67_2

FIG. 7D ch3:CELL TRANSMISSION INTERVAL 8
CELL TRANSMISSION DEMAND SIGNAL 64_3
CELL TRANSMISSION NUMBER SIGNAL 67_3

FIG. 7E ch4:CELL TRANSMISSION INTERVAL 5
CELL TRANSMISSION DEMAND SIGNAL 64_4
CELL TRANSMISSION NUMBER SIGNAL 67_4

FIG. 7F CELL TRANSMISSION TIMING
CELL TRANSMISSION CHANNEL NO. 71

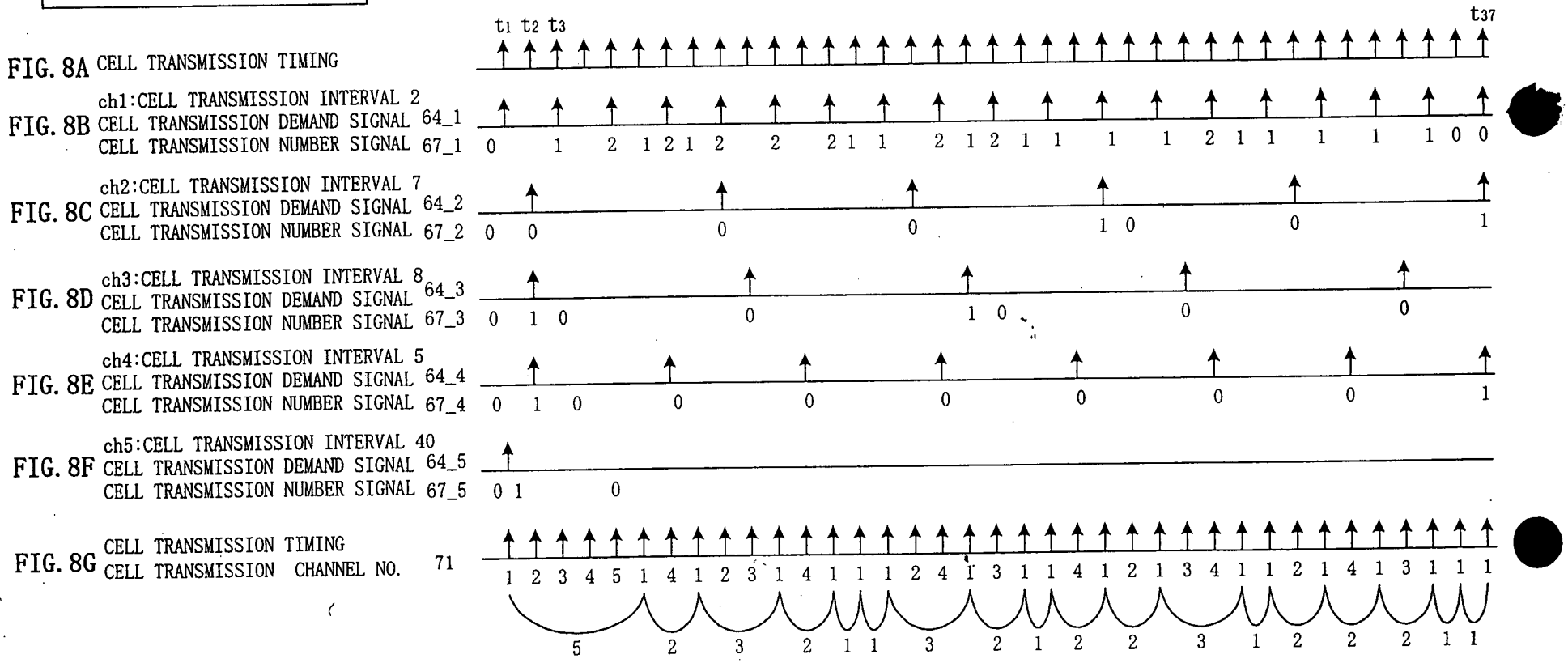


(ch1'S AVERAGE TRANSMISSION INTERVAL BETWEEN t1 AND t31=6)

E:EMPTY

09768720 "0210H

CASE OF CHANNEL NUMBER N=5



ch1'S CELL TRANSMISSION INTERVAL
(AVERAGE TRANSMISSION INTERVAL BETWEEN t1 AND t37=2)